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JAPANESE PATENT OFFICE

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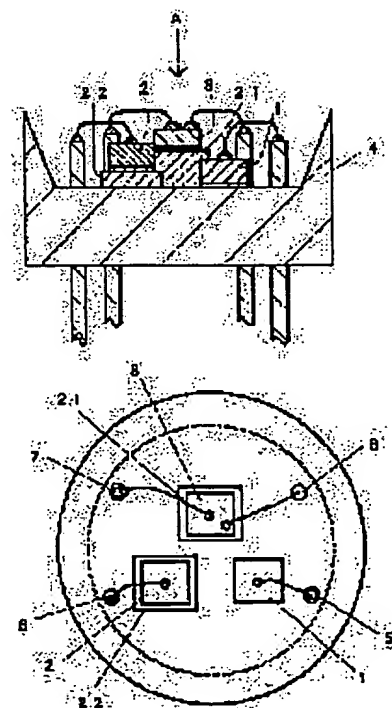
YAMADA MOTOKAZU
NAKAMURA SHUJI

(54) MULTICOLOR LIGHT EMITTING DEVICE

(57)Abstract:

PURPOSE: To reduce the absorption of emission light between chips and output generated light to the outside with high efficiency, by arranging high the height of chip surface in the order of chips of short wavelength emission light.

CONSTITUTION: In a multicolor light emitting element, a blue LED, a green LED, and a red LED are mounted on the central part of a stem provided with four foot-pins, so as to be high from the stem 4 in the order of short wavelength emission light. A spacer 21 is set to be higher than a spacer 22. A red LED chip 1 is mounted. A green LED chip 2 is mounted on the spacer 22, and a blue LED chip 3 is mounted on the spacer 21. After each of the LED chips is fixed, the anode electrode or the like of each chip is connected with each corresponding terminal or the like on the stem 4, and a multicolor light emitting element is formed. Thereby the loss of light from the blue LED chip and the green LED chip is reduced, and the emission efficiency of light to be outputted outside is improved.



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